

5 **N,N-DINITRAMIDE SALTS AS SOLUBILIZING**
 AGENTS FOR BIOLOGICALLY ACTIVE AGENTS

ABSTRACT OF THE DISCLOSURE

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 A method is provided for enhancing the solubility of an ionizable compound in a
lipophilic medium by admixing the compound with an effective solubility-enhancing
amount of an N,N-dinitramide salt. The ionizable compound, upon ionization, gives rise
to a biologically active cationic species that ionically associates with the N,N-dinitramide
15 anion $N(NO_2)_2^-$ following admixture with the N,N-dinitramide salt. The biologically
active cationic species may be a pharmacologically active cation, in which case the
method is useful for enhancing the penetration of the blood-brain barrier by the
pharmacologically active cation. In other embodiments, the ionizable compounds are
medical imaging or diagnostic agents, or agricultural agents such as pesticides. Salts of
20 biologically active cations and N,N-dinitramide ion are also provided as novel
compositions of matter.

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